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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,925	05/12/2006	Sang-goog Lee	Q88928	8066
23373 SUGHRUE MI	7590 12/30/200 ON, PLLC	EXAMINER		
2100 PENNSY	LVÁNIA AVENUE, N	CHOW, YUK		
SUITE 800 WASHINGTON, DC 20037			ART UNIT	PAPER NUMBER
			2629	
			NOTIFICATION DATE	DELIVERY MODE
			12/30/2009	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

sughrue@sughrue.com PPROCESSING@SUGHRUE.COM USPTO@SUGHRUE.COM

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, PROM THE MAILING DATE OF THIS COMMUNICATION.  - Established for mapty is evaluated to the provision of 3 CPR 1-1806, in no event hower, may a reply be trinky filled.  - If NO period for regly is specified above, the resistance statutory point of will expire SIX (8) MONTHS from the mating due of this communication.  - Failur to review within the sid or controlled period for region will be pasted as possible application become playNonCortic Dist U.S. C. § 1333, Any reply received by the Office lister than three months what the mating date of this communication.  - Failur to review within the sid or controlled period for region will be pasted.  - Failur to review within the sid or controlled period for region will be pasted.  - Failur to review within the sid or controlled period for region will be pasted.  - Failur to review within the side of the communication.  - Failur to review within the side of the communication.  - Failur to review within the practice under the mating date of this communication.  - Failur to review of the side of the communication.  - Status  - Status  - Status  - This action is FINAL.  - 2b) This action is non-final.  - 3) This action is FinAL.  - 2b) This action is non-final.  - 3) This action is finAL.  - 2b) This action is non-final.  - 3) This action is part to the merits is closed in accordance with the practice under Ex parte Quay/e, 1935 C.D. 11, 453 O.G. 213.  - Disposition of Claims  - 4) Claim(s) 1-3g is/are pending in the application.  - 4a) Of the above claim(s) 7-14,19-24 and 26-39 is/are withdrawn from consideration.  - 5) This action is size as a size of the controlled to the size and		Application No.	Applicant(s)				
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1)  Responsive to communication(s) filed on 13 October 2009.  2a	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any						
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12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  1 Notice of Informal Patent Application		animor. Note the attached cines	7.64.611.61111.1.1.6.1.62.				
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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1,2, 15, 16 and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Mohri (US 2002/0012014).

As to **clam 1**, Mohri discloses a method of configuring a three-dimensional (3D) information input device which performs information input operations using a <u>plurality of</u> finger <u>devices</u> that <u>are</u> worn by a user and senses the user's finger movement, the method comprising steps of:

obtaining movement signal output from each of the finger devices (Fig. 22(S1, S12, S18 and S23)) and recognizing finger positions of the finger device representing positions of fingers by which the finger device are worn (Fig. 5(7I, 7M, 7TY, 7TX)); and adaptively configuring the 3D input device (Fig. 22(S2-S25) correspond to signal which are provided from the plurality of the finger devices worn by a user, by using information of the recognized finger position of the finger device (see [0195]-[0219]).

As to **claim 2**, Mohri discloses the method of claim 1, wherein adaptively configuring the 3D input device comprises:

adaptively configuring a signal-processing unit (Fig. 25(211)), which processes movement signals sensed by the finger device, based on the recognition results (see [0269]-[0276]); and

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adaptively configuring a device driver of the 3D input device based on the recognition results and basic set-up information used for information input (See [0277]-[0278]).

As to **claim 15**, Mohri discloses a three-dimensional (3D) input device, which is adaptively configurable and performs information input operation using a <u>plurality of</u> finger <u>devices</u> that <u>are</u> worn by a user and senses the user's finger movement, the 3D input device comprising:

a pre-processing unit (Fig. 21(112x,y,z, Bx,y,z) which <u>obtains movement signals</u> output from each of the finger devices and recognizes the finger position of the finger device (See [0192]-[0193]); and

a signal-processing unit (Fig. 25(211)) which is adaptively configured to process the movement signals output from the <u>plurality of</u> finger <u>devices</u> worn by the user <u>corresponding to signal which are provide from the plurality of the finger device worn by a user, by using information of the recognized finger positions of the finger device. (see [0195]-[0219]).</u>

As to **claim 16**, Mohri discloses the 3D input device of claim 15 further comprising a device driver (Fig. 25(208, 215)), which is adaptively configured to process the movement signals output from the signal- processing unit based on the recognition

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result of the pre-processing unit and basic set-up information for information input (See [0270]-[0278]).

As to **claim 25**, Mohri discloses the method of claim 1, wherein the recognizing finger positions of the finger device comprises recognizing the position of each of a plurality of fingers (see Fig. 24, sensors recognizing the position of each of multiple fingers).

### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 3-6 and 17-18 rejected under 35 U.S.C. 103(a) as being unpatentable over Mohri in view of Rafii et al. (US 6,512,838).

As to **claims 3 and 17**, Mohri discloses the method of claims 2 and 16 respectively above.

However, Mohri does not teach the basic set-up information includes input scenario information related to arrangement of information items that are selected by finger movement and a language used for information input.

Rafii discloses methods for data acquired system wherein teach basic setup information including a language used for input (see Col. 8 lines 46-63).

It would have been obvious to one ordinary skill in the art at the time of invention was made to incorporate basic set-up information including language of Rafii into a

method of configuring a three-dimensional (3D) information input device of Mohri, because this further promoting flexibility (see Rafii Col. 8 lines 46-63).

As to claims **4 and 18**, Mohri discloses the method of claims 2 and 17 respectively above.

However, Mohri does not teach an application configures a soft keyboard based on the recognition results and the basic set-up information, when the application receives the recognition results and the basic set-up information from the device driver.

Rafii discloses methods for data acquired system wherein teach an application configures a soft keyboard (Fig. 1c(115)) based on the recognition results and the basic set-up information from device driver (see Fig. 3(200) and Col. 18, lines 39-56).

It would have been obvious to one ordinary skill in the art at the time of invention was made to incorporate an application configures a soft keyboard of Rafii into a method of configuring a three-dimensional (3D) information input device of Mohri, because this further promoting flexibility (see Rafii Col. 8 lines 46-63).

As to **claim 5**, Mohri and Rafii disclose the method of claim 4, wherein the application outputs the configured soft keyboard to an output device (see Rafii Fig. 3(80)).

As to **claim 6**, Mohri and Rafii disclose the method of claim 5, wherein the soft keyboard displays finger positions of the finger device on an array of information items that are selected by finger movements (see Fig. 1C and Col. 10 lines 9-39).

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## Response to Arguments

5. Applicant's arguments with respect to claims 1-6, 15-18 and 25 have been considered but are moot in view of the new ground(s) of rejection.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YUK CHOW whose telephone number is (571)270-1544. The examiner can normally be reached on 8-6 M-TH E.T..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amare Mengistu can be reached on 571 272-7674. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Y. C./ Examiner, Art Unit 2629 Application/Control Number: 10/540,925 Page 7

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Supervisory Patent Examiner, Art Unit 2629